

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-27 (Canceled)

28. (New) A product comprising a fibrous support and a hydrophilic and/or permeabilizing coating bonded over at least part of an area of the support, said coating comprising:

a film covering at least part of the support,
a hydrophilic and/or permeabilizing agent,
optionally, a compatibilizer for the film and for at least part of an area of the support, and
optionally, a wetting agent, other than the hydrophilic and/or permeabilizing agent.

29. (New) The product as claimed in claim 28, wherein the hydrophilic and/or permeabilizing agent is included in the film.

30. (New) The product as claimed in claim 28, wherein the hydrophilic and/or permeabilizing agent is a layer of material covering at least part of the film.

31. (New) The product as claimed in claim 28, wherein the bonding between the support and the film is durable in the presence of an aqueous solution at a temperature of between 10°C and 50°C.

32. (New) The product as claimed in claim 28, wherein the fibrous support is a yarn, a fiber or a filament, a woven or nonwoven, or optionally flocked or tufted textile surface, or a paper.

33. (New) The product as claimed in claim 28, wherein the fibrous support comprises a synthetic polymer, a natural polymer or a derivative of a natural polymer, in the form of a fiber, yarn or filament.

34. (New) The product as claimed in claim 33, wherein the polymer of the support is a thermoplastic polymer based on polypropylene or polyethylene terephthalate, cellulose or a derivative, or a mixture.

35. (New) The product as claimed in claim 34, wherein the support is a textile surface comprising yarns, fibers or filaments based on polypropylene, polyethylene terephthalate, cellulose or a derivative, or a mixture of these yarns, fibers or filaments.

36. (New) The product as claimed in claim 34, wherein the support is a nonwoven surface, optionally a nonwoven of polypropylene fibers or a nonwoven of polypropylene fibers and of fibers of cellulose or a derivative.

37. (New) The product as claimed in claim 28, being permeable to water and wherein the support, the coating and their bonding are such that, after placing the product in contact with the aqueous solution, the aqueous solution has a surface tension which is not lowered by more than 50%.

38. (New) The product as claimed in claim 28, wherein the hydrophilic and/or permeabilizing agent is a mineral hydrophilic agent.

39. (New) The product as claimed in claim 38, wherein the mineral hydrophilic agent is:

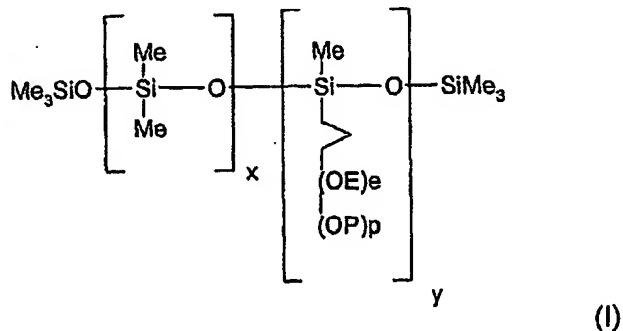
a dispersion of mineral particles included in the film, optionally in an upper part of the film not bonded to the support, or

a layer of mineral material covering at least part of the film.

40. (New) The product as claimed in claim 28, wherein the hydrophilic and/or permeabilizing agent is a hydrophilic polymer.

41. (New) The product as claimed in claim 40, wherein the hydrophilic polymer is a polyether silicone.

42. (New) The product as claimed in claim 41, wherein the polyether silicone has the formula (I) below:



wherein the end groups of the ethylene oxides (OE) or propylene oxides (OP) being groups OR,

in which:

OE means -O-CH₂-CH₂-

OP means -O-CH₂-CH₂-CH₂-

R represents a hydrogen atom or a linear or branched alkyl radical containing from 1 to 22 carbon atoms, optionally from 1 to 4 carbon atoms, or an acetyl group,

x is a number between 5 and 50,

y is a number between 3 and 10,

e is a number between 10 and 30,

p is a number between 0 and 10,

with the further proviso that:

x/y is less than 10,

$e+p$ is less than 30,

e/p is greater than 1, and

$x+y$ is less than 60.

43. (New) The product as claimed in claim 42, wherein:

$x = 9.5$, $y = 3.5$, $e = 11.5$, $p = 2.5$, and R represents a hydrogen atom;

$x = 14$, $y = 4$, $e = 17$ and $p = 1$, and R represents H, a hydrogen atom; or

$x = 48$, $y = 6$, $e = 15$ and $p = 5$, and R represents a hydrogen atom.

44. (New) The product as claimed in claim 28, wherein the film is a polymer in the form of a film.

45. (New) The product as claimed in claim 44, wherein the polymer in film form is a water-insoluble polymer obtained by polymerization of monomers chosen from:

vinyl esters and more particularly vinyl acetate;

alkyl acrylates and methacrylates, the alkyl group of which contains from 1 to 10 carbon atoms;

vinylaromatic monomers;

these monomers optionally being copolymerized with each other or with other ethylenically copolymerizable unsaturated monomers with vinyl acetate and/or acrylic esters and/or styrene, to form homopolymers, copolymers or terpolymers.

46. (New) The product as claimed in claim 45, wherein the monomers that are copolymerizable with vinyl acetate and/or acrylic esters and/or styrene are vinyl propionate, vinyl "Versatate" (brand name for branched C₉-C₁₁ acid esters), vinyl pivalate or vinyl laurate; esters of unsaturated monocarboxylic or dicarboxylic acids containing 3 to 6 carbon atoms with alkanols containing 1 to 10 carbon atoms; vinylaromatic monomers; vinyl halides and diolefins; (meth)allylic esters of (meth)acrylic acid, (meth)allylic esters of maleic, fumaric and itaconic acid monoesters and diesters, and alkene derivatives of acrylic and methacrylic acid amides.

47. (New) The product as claimed in claim 45, wherein the water-insoluble polymer is obtained by polymerization of alkyl acrylates or methacrylates whose alkyl group contains from 1 to 10 carbon atoms.

48. (New) The product as claimed in claim 28, wherein the film and the hydrophilic and/or permeabilizing agent present a weight ratio of between 99.9/0.1 and 90/10 and optionally between 97/3 and 95/5.

49. (New) The product as claimed in claim 28, having a coating (dry matter)/support ratio of between 1% and 25%.

50. (New) The product as claimed in claim 28, included in a disposable absorbent product, optionally a baby diaper (nappy), a feminine hygiene product, or a comfort product for adult incontinence.

51. (New) A process for preparing a product as claimed in claim 28, comprising the following steps:

a) optionally, exposing at least part of the surface of the support to a preparation treatment that promotes bonding between the coating and at least the treated part of the surface of the support,

b) forming a coating according to one of the methods b1) or b2) below:

b1)

b1a) applying to at least part of the surface of the support a coating composition comprising:

at least one film-forming agent, in a liquid vector,
forming a film after removal of the vector,
a hydrophilic and/or permeabilizing agent,
optionally, a compatibilizer for the film or the film-forming agent and for at least part of the surface of the support,
optionally, a wetting agent, other than the hydrophilic and/or permeabilizing agent, and then

b1b) removing the liquid vector to form a film, or

b2)

b2a) applying to at least part of the surface of the support a coating composition comprising:

at least one film-forming agent, in a liquid vector,
forming a film after removal of the vector,
optionally, a compatibilizer for the film or the film-forming agent and for at least part of the surface of the support,
optionally, a wetting agent, other than the hydrophilic and/or permeabilizing agent, and, then,

b2b) removing at least part of the vector to form a film, and then

b2c) forming a layer of hydrophilic and/or permeabilizing mineral material covering at least part of the film.

52. (New) The process as claimed in claim 51, wherein the film-forming agent is a film-forming polymer.

53. (New) The process as claimed in claim 52, wherein the film-forming polymer is a polymer dissolved in an aqueous vector or in a solvent, or an aqueous dispersion of film-forming polymer (latex).

54. (New) An absorbent disposable product comprising a product as defined in claim 28.